

Metabolic Screening Implementation

Metabolic Screening Policy and Implementation 101 Training > Documenting in Excel July 27, 2016

Training Agenda

- Population Prevalence
- Metabolic Screening Policy
- Metabolic Screening Data
 - Data Collection → Data Entry → Data Submission
- Metabolic Screening Reports
- Resources

What is Metabolic Syndrome?

- Metabolic syndrome is a group of metabolic risk factors that exist in one person.
- Presenting with a combination of these factors increases the likelihood of developing cardiovascular disease.
- Some of the underlying causes of this syndrome that give rise to the metabolic risk factors include:
 - being overweight or obese
 - having insulin resistance
 - being physically inactive
 - genetic factors

How is Metabolic Syndrome Diagnosed?

- Metabolic syndrome occurs when a person has at least three of the following measurements:
 - Abdominal obesity (waist circumference of 40 inches or above in men, and 35 inches or above in women)
 - Triglyceride level of 150 milligrams per deciliter of blood (mg/dL) or greater
 - HDL cholesterol of less than 40 mg/dL in men or less than 50 mg/dL in women
 - Systolic blood pressure (top number) of 130 millimeters of mercury (mm Hg) or greater, or diastolic blood pressure (bottom number) of 85 mm Hg or greater
 - Fasting glucose of 100 mg/dL or greater

Population Prevalence Mary Ward Ward Country War and Country War War and Country War

Early Implementation

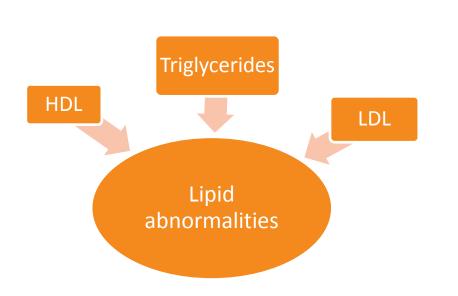
- Metabolic Syndrome Screenings (MBS) were first introduced in Feb. 2010 in DMH Community Psychiatric Rehab Programs
 - CPR clients taking antipsychotic medication
- MBS policy expanded to Disease Management 3700 enrollees
- Continued to be integrated as a best practice with Healthcare Home and ADA Disease Management programs

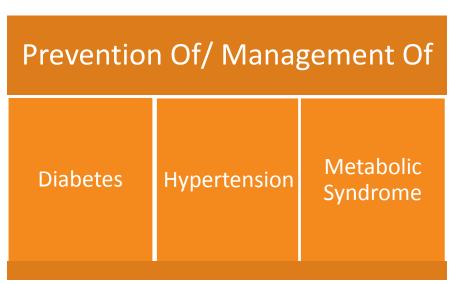
The Reason | Premature Mortality

- Our behavioral health population dies on average 25 years earlier than the general population.
 - Cause of death is due to preventable medical diseases such as cardiovascular disease, diabetes, respiratory diseases, and infectious diseases.

Preventable = Modifiable Risk Factors

The Reason | Modifiable Risk Factors





- ✓ Access to and/or utilization of medical care
- ✓ Adherence to therapies

- ✓ Physical Activity
- ✓ Tobacco Cessation

The Reason | CATIE Study

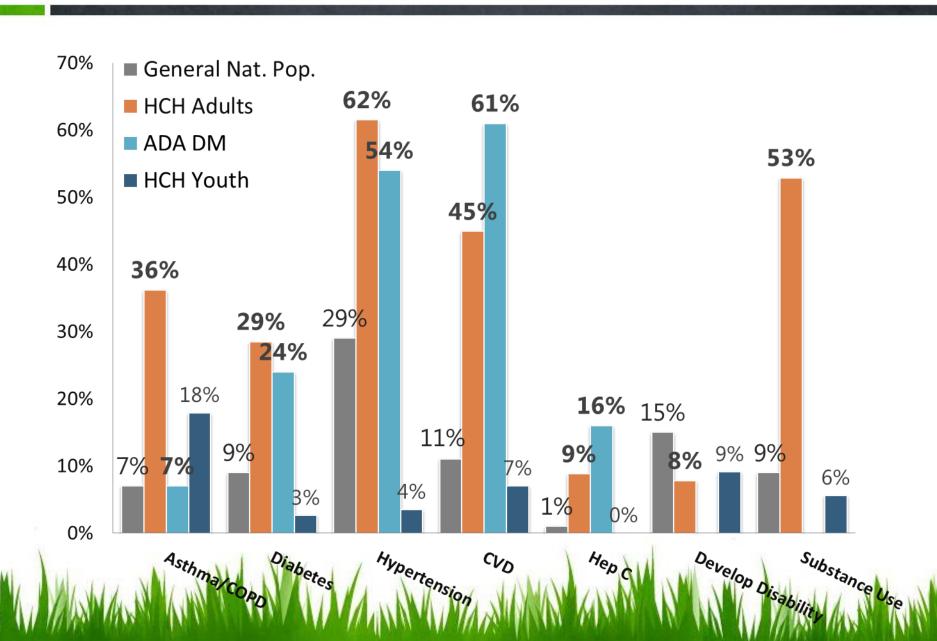
At baseline investigators found that:

- 88.0% of subjects had dyslipidemia
- 62.4% of subjects had hypertension
- 30.2% of subjects had diabetes

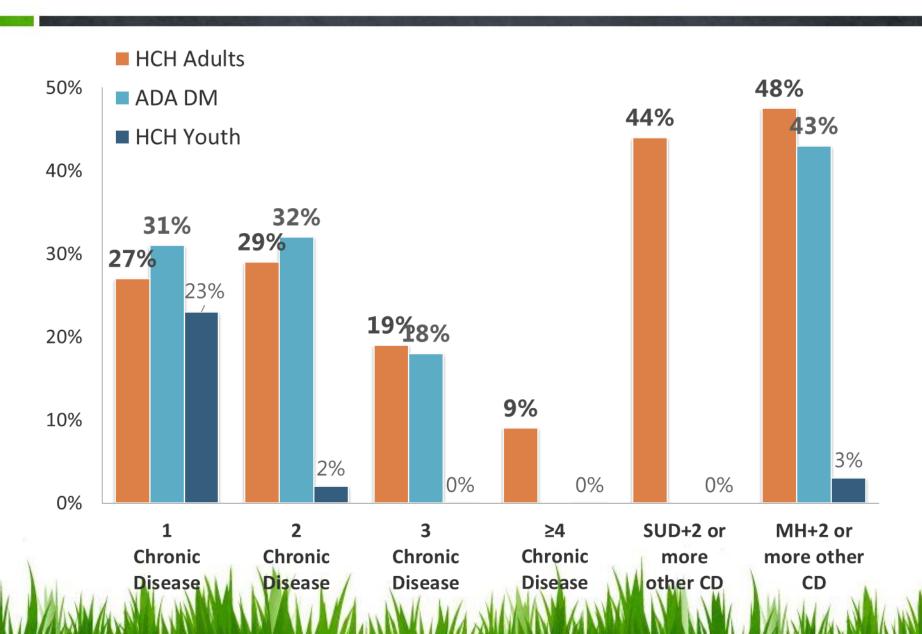
were NOT receiving treatment!



Prevalence | DMH Populations Served



Prevalence | DMH Populations Served



Metabolic Screening Policy

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DMH MBS Policy | ADA DM Program

- Annual complete MBS required for all ADA DM enrollees starting August 1, 2016.
- All MBS required data elements must be collected and reported to the state reporting system.
 - CMT's ProAct online system OR
 - Excel data file submitted to CMT



Requirements for "Complete" Metabolic



VITALS

LAB PANEL

- ✓ Height
- ✓ Weight
- ✓ BMI
- ✓ Blood Pressure
- ✓ Waist Circumference* (optional)

- ✓ Blood Glucose OR A1c
- ✓ Lipid Panel
 - **✓ LDL**
 - **✓** HDL
 - **✓** Triglycerides
 - √ Cholesterol

RISK FACTORS

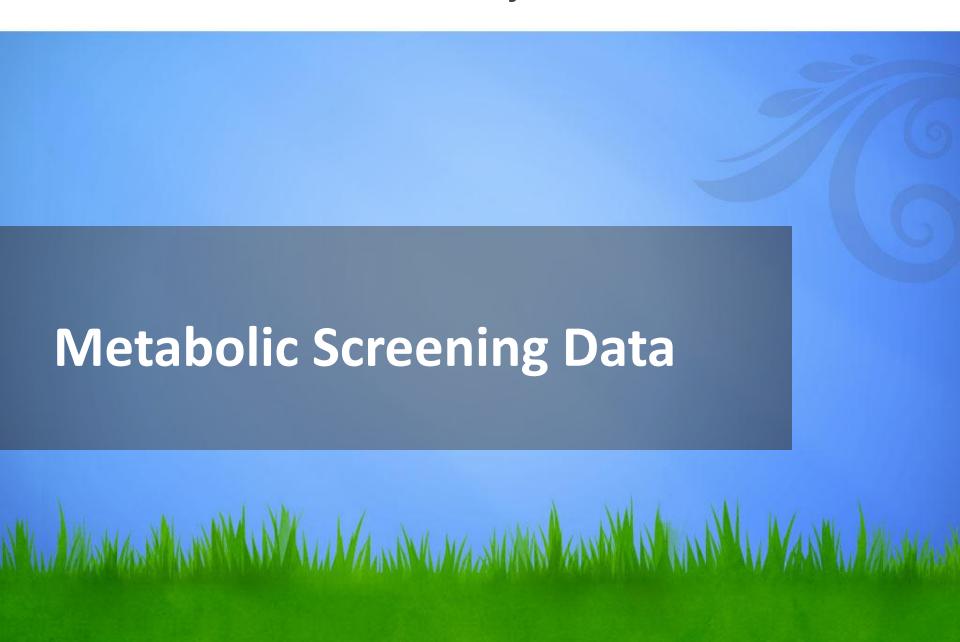
- ✓ Status of Antipsychotic Medication Use
- ✓ Status of Tobacco Use
- ✓ Pregnancy Status

DMH MBS Policy | Cholestech LDX Machine

- DMH provided funding for each ADA DM program provider to purchase a Cholestech LDX machine start up kit.
- Use of the LDX machine requires a CLIA waiver. DMH has purchased and renews a CLIA waiver that covers all DMH contracted providers.
 - Submit necessary information to Kim Yeagle,
 Coalition, to keep on file



Collection → **Entry** → **Submission** → **Process**



STATE OF MISSOURI DEPARTMENT OF MENTAL HEALTH
STATE OF MISSOURI DEPARTMENT OF MENTAL HEALTH METABOLIC SYNDROME SCREENING AND MONITORING TOOL

460	Man.										
MMR	AME DON										
assc	Y						DON'S (FAMALAS	(#)			
		Baseline			Sul	bsequent Valu	ues				
	Date										
	Height (in)										
	Weight (lbs)										
	BMI (kg/m2)										
E	Waist Circumference										
VITAL HISTORY			DMI + 95 .	BMI Monit overweight	toring BMI +30 -	oboso					
≌					ce Monitorin						
롱		_	Females + 35	or Men + 4	0" within nom	nal limits					
₹			males 135°	or Men 1 40°	- prediabetio						
		Baseline			Sul	bsequent Vali	Jes				
	Date										
	Blood Pressure (mmHg)										
	Manual/Automated	M/A	M/A	M/A	M/A	M/A	M/A	M/A	M/A		
	Normal - BP 120	0/80 and belo		od Pressure lension - BP 1		89, Hypertens	sion - 140/90	and above			
		Baseline			Sul	bsequent Valu	Jes				
	Date	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1		
88	Plasma Glucose (mg/dl)										
ĕ.	Fasting - Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N		
BLOOD GLUCOSE	and/or Hgb A1c										
잉	Fasting Plasma Glucose &/or Hgb A1c FPG ↓ 100 mg/dl or Hgb A1c ↓ 6.0 within normal limits										
8					↓ 6.0 within r ficative of pre						
Observe the patient for sis of diabetes i.e.: wt gain (increase or decrease), polyuria or polydipsia. FPG 1 126 mg/dl or Hgb A1c 1 6.1 indicates diabetic state											
Baseline Subsequent Values											
	Date					, ,	, ,				
_	Total Cholesterol (mg/dl)										
뿔	LDL (mg/dl)										
LIPID PANEL	HDL (mg/dl)										
5	Triglycerides (mg/dl)										
				ipid Panel M							
LDL 130 mg/dl, HDL 40 mg/dl &/or Triglycerides 150 mg/dl within normal limits LDL 130 mg/dl, HDL 40 mg/dl &/or Triglycerides 150 mg/dl at risk for hyperlipidemia											
	Taking antipsychotic?	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N		
	Pregnant?	Y/N/U	Y/N/U	Y/N/U	Y/N/U	Y/N/U	Y/N/U	Y/N/U	Y/N/U		
Smoker? Y/N/U			Y/N/U	Y/N/U	Y/N/U	Y/N/U	YANAU	Y/N/U	Y/N/U		
Patient refused Date				Requested of	order from ou	tside provide	r	Date/_			
	Screeners Initials										



Answers to the "Tobacco Use" Question

If the client is using e-cigarettes:

- **✓ YES**
- If the client is using marijuana or other illegal drugs:
 - ✓ NO
- If the client is using chewing tobacco:
 - ✓ YES







DATA ENTRY DEMO

ProAct Online System

or

Excel Data File

Requirements for "Complete" Metabolic

- All required values must be dated in the previous 12 months.
 - When the oldest required valued expires, then the metabolic will not count as complete.
 - Required values recorded as opt out also count as complete.* (only allowable for lab panel)
- Waist circumference is **not** a required value for a "complete" metabolic.
- Answering the pregnancy question is only required when the client is pregnant.
 - CMT will auto populate this question to "NO" unless the status is changed to "YES."



Data Entry Clarifications

- The <u>height and weight must have the same date</u> in order for the BMI to auto calculate.
 - The BMI will note *opt out* if different dates are entered for height and weight.
- When collecting either blood glucose or A1c, leave the other test value blank – do not document the other test as an opt out.
- If you do not collect the waist circumference, then leave it blank – do not document waist circumference as an opt out.



Data Entry Clarifications

MBS Data Entry Parameters

Attribute	Accepted Data Range
Height	25 – 99
Weight	25 – 625
Waist	15 – 85
BP Systolic	40 – 300
BP Diastolic	30 – 200
Blood Glucose	25 – 600
A1c	1-30
Cholesterol	0 − 999 ←
LDL	0 − 800
HDL	0 − 500
Triglycerides	0 − 3,000 ←
Date Taken	Current or previous (no future dates)

- When documenting labs that come back as "NA" or "unable to calculate," record zero for the value and select unable to calculate in the record.
- Documenting unable to calculate values will also count as complete.



Data Submission Clarifications

- All Metabolic data submitted on the MBS Data Template (Excel), must be submitted to the CMT FTP site (not DMH FTP) by the close of business on the first working day of the month.
 - Kim Yeagle, Coalition, sends a new MBS Data Template each month.
 - For questions regarding the CMT FTP site, please contact CMT support (<u>support@cmthealthcare.com</u>).



Data Issues

- Please send any data issues, questions or concerns to CMT support and Kim Yeagle.
- DON'T FORGET TO PASSWORD PROTECT OR <u>ENRCRYPT</u> ANY PHI (DCNs, Client Name, etc.)!

CMT Support

support@cmthealthcare.com

Kim Yeagle

Integrated Health Manager, Coalition

kyeagle@mocoalition.org



Metabolic Screening Reports

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MBS Monthly Reports at a Glance

METABOLIC SCREENING

- ✓ Attribute Completion and Opt Out Report (aggregate report)
- ✓ Missing Required Attribute Report (per agency)
- √ 30/60 Day Attribute Expiration Report (per agency)
- ✓ Attribute Error Report (per agency, *only for Excel data entries submitted)

^{*}Reports will be emailed monthly from the DBH/Coalition team.

Attribute Completion and Opt Out Report

MBS Attribute Completion and Opt Out Report	July 2014

- * Report shows MBS attribute data complete and opted out in the previous 12 month.
- * Report excludes all new HCH enrollees in the previous 90 days.

Metabolic Syndrome Screening Data

- * Report includes all data reported as of the last day of the reporting month.
- * "No Data" includes no values on file and values with dates older than 12 months.
- * Opt out values also count as 'complete' towards the total Metabolic Screening completion measure.

		Height						
Agency	Total HCH Clients	N Complete	% Complete	N Opt Out	% Opt Out	N No Data	% No Data	N
Adapt of Missouri, Inc.	409	316	77%	2	0.0%	91	22%	Г
BJC Behavioral Health- SE	563	501	89%	2	0.0%	60	11%	Г
BJC Behavioral Health- SL	1279	892	70%	4	0.0%	383	30%	Г
Bootheel Counseling Services	626	493	79%	35	6.0%	98	16%	
Burrell Behavioral Health - Springfield	1360	1190	88%	9	1.0%	161	12%	
Burrell Behavioral Health- Central	733	692	94%	13	2.0%	28	4%	
Clark Community Mental Health Center	269	236	88%	7	3.0%	26	10%	
Community Counseling Center	674	509	76%	14	2.0%	151	22%	
Community Treatment, Inc.	342	292	85%	1	0.0%	49	14%	
Comprehensive Health Systems, Inc.	172	163	95%	0	0.0%	9	5%	
Comprehensive Mental Health Services	392	352	90%	3	1.0%	37	9%	
Crider Health Center, Inc.	1000	827	83%	59	6.0%	114	11%	
East Central Missouri Behavioral Health Services	341	307	90%	1	0.0%	33	10%	
Family Counseling Center	941	805	86%	2	0.0%	134	14%	
Family Guidance Center	597	484	81%	58	10.0%	55	9%	
Hopewell Center	504	434	86%	4	1.0%	66	13%	
Independence Center	249	216	87%	3	1.0%	30	12%	
Mark Twain Behavioral Health	385	300	78%	16	4.0%	69	18%	
New Horizons Community Support Services	327	310	95%	13	4.0%	4	1%	
North Central Missouri Mental Health Center	346	297	86%	0	0.0%	49	14%	
Ozark Center	562	485	86%	6	1.0%	71	13%	
Ozark Medical Center	252	206	82%	3	1.0%	43	17%	
Pathways Community Behavioral Healthcare, Inc.	2592	2158	83%	21	1.0%	413	16%	
Places for People	376	288	77%	19	5.0%	69	18%	
Preferred Family Healthcare, Inc.	333	321	96%	0	0.0%	12	4%	
ReDiscover	761	598	79%	3	0.0%	160	21%	
Swope Health Services	506	458	91%	10	2.0%	38	8%	
Tri-County Mental Health Services	362	337	93%	1	0.0%	24	7%	
Truman Medical Center Behavioral Health	589	517	88%	4	1.0%	68	12%	
Statewide	17842	14984	84%	313	1.8%	2545	14%	

Missing Required Attribute Report



[Your Agency] Missing Required Attribute Report 201504

PatientID	FirstName	LastName	CMHCName	Missing Attribute	LastValueRecorded	DateofLastValue
12345678	Jane	Doe	Your Agency Name Here	Triglycerides	101	1/22/2013
12345678	Jane	Doe	Your Agency Name Here	HDL	65	1/22/2013
12345678	Jane	Doe	Your Agency Name Here	LDL	44	1/22/2013
12345678	Jane	Doe	Your Agency Name Here	TotalCholesterol	129	1/22/2013
23456789	John	Smith	Your Agency Name Here	BPSystolic	126	4/25/2014
23456789	John	Smith	Your Agency Name Here	Triglycerides	101	4/25/2014
23456789	John	Smith	Your Agency Name Here	HA1C	5	4/25/2014
23456789	John	Smith	Your Agency Name Here	HDL	36	4/25/2014
23456789	John	Smith	Your Agency Name Here	BloodGlucose	70	4/25/2014
23456789	John	Smith	Your Agency Name Here	TotalCholesterol	163	4/25/2014
23456789	John	Smith	Your Agency Name Here	BPDiastolic	80	4/25/2014
23456789	John	Smith	Your Agency Name Here	LDL	107	4/25/2014
23456789	John	Smith	Your Agency Name Here	AntipsychoticUse	Yes	4/25/2014
34567891	Bob	Johnson	Your Agency Name Here	TotalCholesterol	143	1/17/2014
34567891	Bob	Johnson	Your Agency Name Here	LDL	60	1/17/2014
34567891	Bob	Johnson	Your Agency Name Here	BloodGlucose	119	1/17/2014
34567891	Bob	Johnson	Your Agency Name Here	HDL	56	1/17/2014
34567891	Bob	Johnson	Your Agency Name Here	HA1C	Opted Out	1/17/2014
34567891	Bob	Johnson	Your Agency Name Here	Triglycerides	133	1/17/2014

30/60 Day Attribute Expiration Report

Care Management Technologies		[Your Agency	/] Patient Req	uired Attribu	ites Expiring 2	01504		
Report Run Date: 2015-05-07								
Agency	PatientId	Patient First name	Patient Last Name	Is CMHC HCH member?	Attribute Name	Latest Attribute Date Taker	Expires on	Last Value Recorder
Your Agency Name Here	12345678	Jane	Doe	Y	BPSystolic	6/25/2014	6/25/2015	122
Your Agency Name Here	12345678	Jane	Doe	Y	HDL	6/25/2014	6/25/2015	50
Your Agency Name Here	12345678	Jane	Doe	Υ	BPDiastolic	6/25/2014	6/25/2015	81
Your Agency Name Here	12345678	Jane	Doe	Υ	AntipsychoticUse	6/25/2014	6/25/2015	Υ
Your Agency Name Here	12345678	Jane	Doe	Υ	HA1C	6/25/2014	6/25/2015	Opt out
Your Agency Name Here	12345678	Jane	Doe	Υ	Height	6/25/2014	6/25/2015	65
Your Agency Name Here	12345678	Jane	Doe	Υ	TotalCholesterol	6/25/2014	6/25/2015	249
Your Agency Name Here	12345678	Jane	Doe	Υ	Weight	6/25/2014	6/25/2015	215
Your Agency Name Here	12345678	Jane	Doe	Υ	BloodGlucose	6/25/2014	6/25/2015	154
Your Agency Name Here	12345678	Jane	Doe	Υ	LDL	6/25/2014	6/25/2015	152
Your Agency Name Here	12345678	Jane	Doe	Υ	Smoker	6/25/2014	6/25/2015	No
Your Agency Name Here	12345678	Jane	Doe	Υ	Triglycerides	6/25/2014	6/25/2015	234
Your Agency Name Here	23456789	John	Smith	Υ	HDL	6/26/2014	6/26/2015	35
Your Agency Name Here	23456789	John	Smith	Υ	LDL	6/26/2014	6/26/2015	106
Your Agency Name Here	23456789	John	Smith	Υ	Triglycerides	6/26/2014	6/26/2015	232
Your Agency Name Here	23456789	John	Smith	Υ	TotalCholesterol	6/26/2014	6/26/2015	187
Your Agency Name Here	23456789	John	Smith	Υ	HA1C	6/26/2014	6/26/2015	5.1
Your Agency Name Here	34567891	Bob	Johnson	N	BloodGlucose	6/5/2014	6/5/2015	113
Your Agency Name Here	34567891	Bob	Johnson	N	BPSystolic	6/5/2014	6/5/2015	114
Your Agency Name Here	34567891	Bob	Johnson	N	LDL	6/17/2014	6/17/2015	93
Your Agency Name Here	34567891	Bob	Johnson	N	Height	6/5/2014	6/5/2015	72
Your Agency Name Here	34567891	Bob	Johnson	N	TotalCholesterol	6/17/2014	6/17/2015	153
Your Agency Name Here	34567891	Bob	Johnson	N	HDL	6/17/2014	6/17/2015	43
Your Agency Name Here	34567891	Bob	Johnson	N	BPDiastolic	6/5/2014	6/5/2015	76
Your Agency Name Here	34567891	Bob	Johnson	N	Smoker	6/17/2014	6/17/2015	Yes
Your Agency Name Here	34567891	Bob	Johnson	N	AntipsychoticUse	6/17/2014	6/17/2015	Y
Your Agency Name Here	34567891	Bob	Johnson	N	Triglycerides	6/17/2014	6/17/2015	85
Your Agency Name Here	34567891	Bob	Johnson	N	Weight	6/5/2014	6/5/2015	193
Your Agency Name Here	34567891	Bob	Johnson	N	HA1C	6/5/2014	6/5/2015	6.6

Attribute Error Report

Attribute Error Report

PatientID	CMHC Name	Attribute Error
123456789	Your Agency Name Here	PatientID not in Patient table
123456790	Your Agency Name Here	PatientID not in Patient table
123456791	Your Agency Name Here	PatientID not in Patient table
123456792	Your Agency Name Here	HA1C does not fit parameters: 0
123456793	Your Agency Name Here	PatientID not in Patient table
123456794	Your Agency Name Here	PatientID not in Patient table
123456795	Your Agency Name Here	Blood Glucose does not fit parameters: 0.00
123456796	Your Agency Name Here	Blood Glucose does not fit parameters: 0.00
123456797	Your Agency Name Here	Blood Glucose does not fit parameters: 0.00
123456798	Your Agency Name Here	HA1C does not fit parameters: 0
123456799	Your Agency Name Here	Blood Glucose does not fit parameters: 0.00
123456800	Your Agency Name Here	Waist does not fit parameters: 0
123456801	Your Agency Name Here	PatientID not in Patient table
123456802	Your Agency Name Here	PatientID not in Patient table
123456803	Your Agency Name Here	Blood Glucose does not fit parameters: 0.00
123456804	Your Agency Name Here	Waist does not fit parameters: 0
123456805	Your Agency Name Here	Waist does not fit parameters: 0
123456806	Your Agency Name Here	PatientID not in Patient table

Resources and Supports

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Resources

- DMH ADA DM Metabolic Syndrome Screening Policy
 - http://dmh.mo.gov/ada/docs/clinical35ada dm metabolic syndrome screening.pdf
- Missouri Wellness website > www.wellmissouri.com
 - Disease Management Log-In Page



- 1. Click the **Log-In** link
- 2. Enter the **password**: management!
- Access many resources from the state and other disease management teams

Coordination Templates

- Missouri Wellness website > www.wellmissouri.com
 - Disease Management Log-In Page
- These templates were drafted for DMH agencies to use with clients and staff as they implement the metabolic screening. Any of the materials can be modified to the extent the agency would like to use them.
 - Metabolic Screening Patient Flyer
 - Metabolic Screening Participant Form (optional)
 - Metabolic Screening Client Results for Adult and Child
 - Metabolic Screening Fax Referral Letter to Primary Care Providers

pre-diabetes SCREENING RESULTS

Congratulations,

an important step to managing your health care!							
A qualified nurse will help you understand the results of your labs completed on							
Your	tyour BMI is under 25, you should be monitored 4 times a year.						
Height is (inches)	t If your BMI is over 25, then please make an appointment with your primary care physician for education on weight						
Weight is (pounds)	management and exercise.						
	Men with a waist circumference under 40, and women under 35, should be monitored 4 times a year.						
Your	* If your waist circumference is over 40 for men or over 35 for women, then please make an appointment with your						
Waist Circumference is (inches)	primary care physician for education on weight management and exercise.						
Your	t Jf your blood pressure is below 130/85, then you should be monitored 1 time a year.						
Blood Pressure is	¿"It your blood pressure is above 130/85, then please make an appointment with your primary care physician for follow up care.						
	್ಷಿಗ್ಗೆ your fasting blood sugar is below 100, then you should be monitored 1 time a year.						
Your	Lt your fasting blood sugar is between 100 and 125, you will need to be monitored 4 times a year.						
Fasting blood sugar is	Ltyour fasting blood sugar is above 125, then please make an appointment with your primary care physician for follow up care.						
Your Lipid Panel Results are:	tif your LDL is below 130, HDL above 40 and Triglycerides						
Total Cholesterol	below 150, then you should be monitored 1 time a year. Lift your LDL is above 130, HDL is below 40 and						
Triglycerides	Triglycerides are above 150, then please make an						
LDL	appointment with your primary care physician for follow up care.						

Contacts

DMH, Division of Behavioral Health

Tara Crawford | <u>tara.crawford@dmh.mo.gov</u> Natalie Fornelli | <u>natalie.fornelli@dmh.mo.gov</u>



Missouri Coalition for Community Behavioral Healthcare

Kim Yeagle | kyeagle@mocoalition.org Rachelle Glavin | rglavin@mocoalition.org

Care Management Technologies (CMT)

Support | support@cmthealthcare.com